

APS ID No. 870393
Auth ID No. 1072637

FACT SHEET

NAME OF APPLICANT	American Refining Group, Inc.	PROJECT LOCATION	Foster Township & Bradford City McKean County	APPLICATION NUMBER	PA0002674
<p>This application is for a renewal of an NPDES permit, for an existing discharge of treated industrial waste, groundwater and stormwater. This is a major discharge. SIC Code: 2911(Petroleum Refining)</p> <p>The name and mailing address are:</p> <p>American Refining Group, Inc. 77 North Kendall Avenue Bradford, PA 16701</p> <p>The name and site address are:</p> <p>American Refining Group Bradford 77 North Kendall Avenue Bradford, PA 16701</p> <p>The responsible official is: Steve L. Sherk, Vice President EHS Tel: (814) 368-1283 Jacob Skudlarek, Environmental Coordinator Tel: (814) 368-1344</p> <p>The EPA Waiver is not in effect.</p> <p>A copy of the updated PPC Plan will be required. The application indicates the PPC, SPCC, FRP, and SRP plan was updated on 7/10/14.</p>					
RECOMMENDATION AND ACTION					
Approve-Issue by Region	Refuse	Signature			Date
X		ROBERT P. HUTCHINSON PERMITS SECTION			DRAFT FINAL
X		JUSTIN C. DICKEY, P.E. ENVIRONMENTAL ENGINEER MANAGER			DRAFT FINAL
X		JOHN A. HOLDEN, P.E. REGIONAL PROGRAM MANAGER			
<p>PERMIT CONDITIONS:</p> <p>1. OTHER REQUIREMENTS -- Solids Disposal Temperature</p> <p>2. SPECIAL -</p> <p>1. Sampling Waiver for Hex. Chrom., Tot. Chrom. & Phenolics 2. Stormwater Allowance Factors 3. Chemical Additives 4. Requirements Applicable to Stormwater Outfalls 5. eDMR reporting requirement 6. Hydrostatic Testing</p>					

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Permit Requirements:

The draft discharge limitations are based on promulgated effluent limitation guidelines, Best Professional Judgment (BPJ), Best Available Technology (BAT), Best Practicable Technology (BPT) Water Quality based on criteria in Chapter 93 (WQ-93), monitoring only (MO) in order to develop a firmer database for future evaluation, discharge standards based on Chapter 95 (CH-95), or other requirements as identified in a subnote to the outfall. The basis of the following permit limits are identified in the parenthesis beside each parameter.

Outfall 002 River Mile Index: 12.2 Stream Code: 56932
Lat: 41°57'58.66" Long: 78°37'53.38"

Which Receives Waste From: Crude desalting and distillation process water, steam condensate, rail car drain pans, contaminated groundwater from horizontal and vertical recovery wells and stormwater.

The proposed discharge limits are based upon a design flow of 0.437 MGD (long term average flow).

Parameters	Loadings (lb/day)		Concentrations (mg/l)			Monitoring	
	Monthl y Average	Daily Maximum Report	Monthly Average	Daily Maximum Report	Instant Maximum	Measurement Frequency	Sample Type
(MO) Flow (MGD)						Continuous	Measured
(BPT) TSS	160	249	Report	Report	110	2/Week	24-Hr Comp
(BPT) BOD ₅	189	356	Report	Report	130	2/Week	24-Hr Comp
(CH-95) Oil and Grease	57	111	15		30	2/Week	3 Grabs/24 hrs
(BAT) NH ₃ -N	20	44	Report	Report	13.7	2/Week	24-Hr Comp
(BAT) COD	947	1832	Report	Report	650	2/Week	24-Hr Comp
(BAT) Sulfide	1.1	2.4	Report	Report	0.73	2/Week	24-Hr Comp
(BAT) Chromium VI	0.2	0.44	Report	Report	0.13	*	24-Hr Comp
(BPT) pH			Within limits of 6.0 to 9.0 standard units at all times			Continuous	Recorded
(BAT/BPT) Total Chromium	3.2	5.4	Report	Report	2.2	*	24-Hr Comp
(WQ-93) Total Phenolics	0.55	1.1	0.15	0.3	0.38	*	24-Hr Comp
(WQ-93) Fecal Coliform (05/01-09/30)			200/100 ml		1000/100 ml	1/Week	Grab
(WQ-93) Total Residual Chlorine			0.5		1.6	1/Week**	Grab

Samples taken at the following location(s): Outfall 002 – (prior to disinfection except for fecal coliform and TRC which should be sampled after disinfection units and prior to discharging to the stream).

* - A monitoring waiver will be continued for ELG parameters Phenolics, Total Chromium and Hexavalent Chromium based on 40 CFR 122.44(a)(2)(i).

** -- Sampling is only required when disinfection equipment is being used.

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Outfall 004 River Mile Index: 11.6 Stream Code: 56932
Lat: 41°58'43.08" Long: 78°37'30.76"

Which Receives Waste From: Steam condensate, groundwater from recovery wells, and stormwater.

The proposed discharge limits are based upon a design flow of 0.048 MGD.

Parameters	Loadings (lb/day)		Concentrations (mg/l)			Monitoring	
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Instant Maximum	Measurement Frequency	Sample Type
(MO) Flow (MGD)	Report	Report				Continuous	Measured
(BPJ) TSS			30	60	75	1/Week	Grab
(CH-95) Oil and Grease			15		30	1/Week	Grab
(BPT) TOC				110	138	1/Week	Grab
(CH-95) pH			Within limits of 6.0 to 9.0 standard units at all times			1/Week	Grab

Samples taken at the following location: Outfall 004 (during non-storm events and prior to mixing with any other waters).

Outfall 005 Stream Code: 56932 Lat: 41°57'49.1" Long: 78°37'8.73"
Outfall 007 Stream Code: 56932 Lat: 41°58'17.78" Long: 78°37'24.2"
Outfall 008 Stream Code: 56932 Lat: 41°58'26.77" Long: 78°37'26.98"
Outfall 009 Stream Code: 56932 Lat: 41°58'42.87" Long: 78°37'30.43"
Outfall 010 Stream Code: 56936 Lat: 41°58'48.88" Long: 78°37'18.15"
Outfall 012 Stream Code: 56932 Lat: 41°57'55.7" Long: 78°37'59.19"

Which Receives Waste From: Stormwater from industrial areas.

The proposed discharge limits are based upon a design flow of N/A MGD.

Parameters	Loadings (lb/day)		Concentrations (mg/l)			Monitoring	
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Instant Maximum	Measurement Frequency	Sample Type
(MO) Flow (MGD)	Report					2/6 Months	Estimate
(MO) TSS			Report		Report	2/6 Months	Grab
(CH-95) Oil and Grease			15		30	2/6 Months	Grab
(BPT) TOC				110	138	2/6 Months	Grab
(CH-95) pH			Within limits of 6.0 to 9.0 standard units at all times			2/6 Months	Grab

These discharges shall consist solely of stormwater runoff.

Samples taken at the following location: Stormwater outfalls prior to mixing with any off-site wastestreams.

Outfall 006 Stream Code: 56932 Lat: 41°58'1.57" Long: 78°37'43.1"
Outfall 011 Stream Code: 56932 Lat: 41°57'44.8" Long: 78°38'11.49"

Which Receives Waste From: Stormwater not associated with industrial activities

The proposed discharge limits are based upon a design flow of N/A MGD.

Parameters	Loadings (lb/day)		Concentrations (mg/l)			Monitoring	
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Instant Maximum	Measurement Frequency	Sample Type

These outfalls shall be composed entirely of non-polluting storm water runoff in accordance with Special Condition No. 4

Visual inspections shall be taken at the following location: storm drains prior to mixing with any other waters.

These two outfalls continue to qualify for a no exposure exemption.

The receiving waters are Tunungwant Creek (002, 004, 005, 006, 007, 008, 009, 011, and 012) and Foster Brook (010). The receiving streams are in State Water Plan 16-C and are classified for the following uses: warm water fishes (Tunungwant Creek), cold water fishes (Foster Brook), aquatic life, water supply and recreation. The nearest downstream potable water supply is considered the PA/NY state border located on Tunungwant Creek approximately 3 miles below the point of discharge.

Future compliance status with draft permit limits: The permittee should be able to meet these limits based on NPDES application data, the existing WQM permits and submitted DMRs.

WQM #4212202 (Foster Brook Treatment Facility): Three phase oil-water separator, (2) 60,000-gallon EQ tanks, cationic polymer mix tank, pH adjustment tank, flocculation tank w/ anionic polymer feed, 1,000 sq. ft. inclined plane clarifier, sludge tank, granulated activated carbon (GAC) feed tank, (2) bag filters, (4) GAC units w/ two units operating in parallel as lead, backwash tank, Delta V operating system and associated appurtenances. [This treatment system is tributary to Outfall 004]

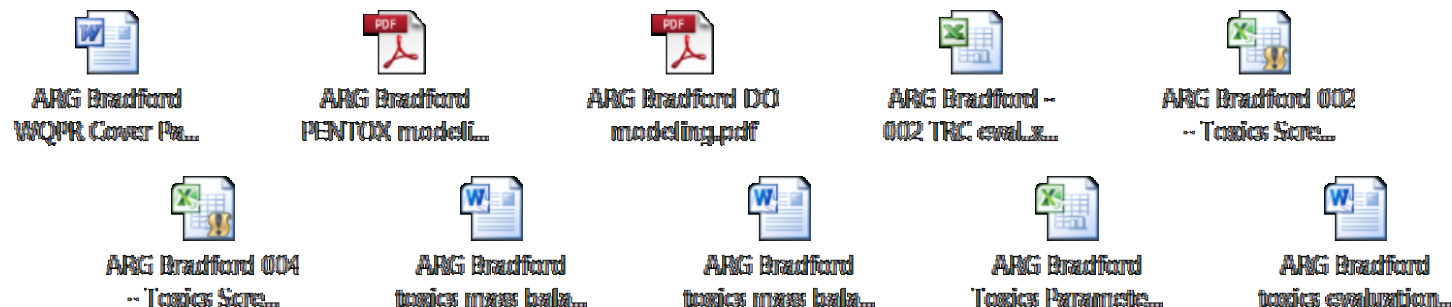
WQM #4295201-T1: Surge tank & (2) 250-gpm continuous upflow sand filters. The ALAR vacuum filtration system is to be decommissioned.

WQM #4286201-A2: Oil/water separator, pump tank, caustic and coagulant addition and an oxidation tank. The portion of the refinery treatment system that will receive this treated groundwater consists of: flocculation tank (T3002), FRC DAF tank, surge (buffer) tank, (2) sand filters and chlorine/dechlorination tank. [This amendment approved the piping of the ARG groundwater treatment system discharge to the refinery wastewater treatment plant]

WQM #4277402 – The facilities under this permit are either changed, are no longer used or covered under other existing permits. The permit can be cancelled. When this permit was transferred from Witco Corp. to ARG on 7/21/97 the effluent requirement were removed. Therefore, the NPDES condition to supersede those limits is no longer needed.

WQM #1095S – Cancelled on 8/31/78.

WQPR Documents:



WQPR Documents cont'd:



Acrylamide
e-mail from C.O.L...



ARG Bradford
Chem Add. Revi...



ARG Bradford
DMR Summary P...



ARG Bradford
DMR Summary ...



ARG Bradford -
BAT Spreadsheet...



Foster Brook_
Turna Ck use att...

EPA Checklist:



ARG Bradford
EPA checklist do...